



V.P & R.P.T.P SCIENCE COLLEGE
MICROBIOLOGY
USO6CMIC01
INTERNAL TEST

DATE : 12/03/2018

Time : 11:00 a.m to 12:30 p.m

TOTAL MARKS : 25

Note: Figures on the right indicate marks

Que 1: Attempt the following multiple choice questions. (03)

- i) This is a deaminating mutagenic agent.
- A) Nitrous acid C) EES
B) 5- Bromo uracil D) 2- amino purine
- ii) Mismatch repair employs this enzyme.
- A) Methylase C) Photolyase
B) Glycosylase D) None of these
- iii) The function of TnpR gene protein is in _____.
- A) Transformation C) Conjugation
B) Transposition D) Transduction

Que 2: Attempt the following short questions (any two) (04)

- i) Define: a) Transition mutation b) Silent mutation
ii) Mention the contribution of:
 a) Barbara McKlinton b) Fred Griffith
iii) Explain photoreactivation.

Que 3: Describe the method of isolation of antibiotic resistant mutants and auxotrophs. (06)

OR

Que 3: Discuss Fluctuation test and mention its significance. (06)

Que 4: Explain SOS repair of damaged DNA. (06)

OR

Que 4: Define Reversion of mutation & explain Ames's test. (06)

Que 5: Describe generalized transduction as a mode of gene transfer citing a suitable example (06)

OR

Que 5: Explain the mechanism of transformation in *Streptococcus pneumoniae*. (06)

-----BEST OF LUCK-----